



Illinois Department of Transportation

Memorandum



To: George F. Ryan/Dist. 2 Attn: Ross E. Monk
From: Ralph E. Anderson By: Todd E. Ahrens
Subject: BRIDGES AND STRUCTURES
Date: July 11, 2007

Todd E. Ahrens

FAP Route 308
Section (103C-1BR)M
JoDaviess County

P-92-026-06
SN 043-0037

IL Route 84 Over Irish Hollow Creek

We have reviewed the Bridge Condition Report (BCR) submitted with your memorandum dated March 29, 2007.

The BCR recommends deck replacement using road closure. The improved bridge will provide a 32'-0" clear width.

After reviewing the BCR, we have the following comments:

1. We recommend that the proposed scope-of-work be revised to superstructure replacement. Our cost estimates show that the cost of deck replacement is 82% of the cost of superstructure replacement, indicating that superstructure replacement is appropriate for this rehabilitation project.
2. We concur with your recommendations for an improved bridge clear width of 32'-0", and road closure during the TSL plan phase.
3. Superstructure type, and the potential use of semi-integral abutments should be investigated during the TSL plan phase.

Subject to the above comment, the Bridge Condition Report is approved. A type, Size, and Location (TSL) plan, Structure Report, Hydraulic Report, proposed cross-section and proposed plan and profile will be required for this project.

GGE/mnw1215
Cc: George Ryan/Dist. 2/Attn: M. Etemadi

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Illinois Department of Transportation

Memorandum

To: Ralph E. Anderson
From: George F. Ryan
Subject: Bridge Condition Report
Date: March 29, 2007

By: Ross E. Monk

Ross E. Monk

400 C.T.
200 C.T.

FAP Route 308 (IL 84)
Section (103C-1BR)M
JoDaviess County
Job No. P-92-026-06
SN 043-0037

Enclosed for your review and concurrence is the Bridge Condition Report for the above-designated structure. Conditions affecting the selection of the structure geometry are as follows:

General Scope of Work:	Deck Replacement
Current ADT: 2950 (2010)	Proposed ADT: 3700 (2030)
Existing Approach Roadway:	50'
System:	Other Principal Arterial

On the basis of this data and the District Bridge Maintenance Engineer's inspection and comments, the following recommendations are made:

Proposed Approach Roadway:	50'
Proposed Bridge Clear Width:	32'
	base-to-base of parapet

Specific Scope of Work:	Deck replacement that will include repairing the existing approach parapet and filling the void under the south abutment.
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(Additional details in attached Bridge Condition Report).

Recommended traffic control:	Stage Construction
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A "Proposed Bridge Drawing" is enclosed for your information. A standard bridge design will be used if appropriate. Bridge details shown are preliminary pending preparation of detailed drawings.

This structure and approaches to it, as eligible, will be constructed utilizing NHS-State funds. Design criteria from the BDE 2002 and Applicable AASHTO Policies has therefore been used.

The preliminary engineering for this bridge will be prepared by District 2.

It is expected that authorization to proceed will be received by May 27, 2007. Processing of this Bridge Condition Report to permit work to proceed near that date would be appreciated.

The original photographs are enclosed for clarity and may be kept for your records.

We would appreciate your comments and/or approval of this report by May 27, 2007.

If you have any questions, please contact Madan Chand at 815/284-5359.

PL-0059/S&P/mc-0383/sb

Enclosures

c: Kevin Marchek Attn.: Mahmoud Etemadi
Consultant (if applicable)
Programming Engineer (No Attachments)